Hingham Middle School Cost Estimate VE Exercise

VALUE ITEM	INITIAL	POST-VE
	ESTIMATE	
Total Project Budget	64,042,549	61,749,189
Non-reimbursable		
items	(2,113,500)	(2,113,500)
MSBA Budget Total	61,929,049	59,653,689
Hingham Cost		
(56.13%)	34,760,775	33,473,512
Non-reimbursable		
items	2,113,500	2,113,500
Hingham Cost	36,874,275	35,587,012
Cost per Square Foot	\$301.92	\$290

Non-reimbursable Items:

- o \$1,100,000 for ground improvement foundation
- o \$500,000 for Septic upgrades (estimate)
- \$95,500 for Septic/WWTF investigation (projected from Designer contract budget)
- o \$150,000 for field storage and toilet
- o \$68,000 for hazardous VAT tile removal (asbestos)
- o \$200,000 for other general soft costs (legal, permitting, etc.)

Total: \$2,113,500

Additional handouts:

- o Estimated Costs used for April Town Meeting
- o Budget submitted to the MSBA
- o Cost Estimate Reconciliation Summary
- o Value Engineering Worksheet
- o Value Engineering Summary Memo

Hingham Middle School Estimated Construction Project - Full Costs

Upper Range Calculation Construction Cost	Cost Per Foot \$275	Sq Feet 164,000	Extended Price \$45,100,000
Soft Costs			
OPM			
Design Architect			
Legal			
Contingency			
FF&E (MSBA Allows 1200 per Student) Technology (Allowed 1200 Per Student)			
Other			
Soft Cost Percent Range (MSBA Comps)	25-29%		26%
* Estimated Soft Costs			\$11,726,000
Upper Range Estimate			\$56,826,000
Lower Range Calculation	Cost Per Foot	Sq Feet	Extended Price
Construction Costs	\$235	164,000	\$38,540,000
*Estimated Soft Cost			\$11,726,000
Lower Range Estimate			\$50,266,000
Summary	Upper Range		Lower Range
Estimated Project Costs	\$56,826,000		\$50,266,000
Less: Feasibility Study Amount	\$600,000		\$600,000
Range for second vote	\$56,226,000		\$49,666,000

^{*} Lower construction costs will not necessarily result in lower soft cost.



TOTAL PROJECT BUDGET

Hingham Middle School

Date Issued: August 29, 2011

PROJECT BUDGET ITEMS:	Budgeted	Committed	Expended
BUILDING CONSTRUCTION & SITE COST	51,719,362.00	0.00	0.0.0
-Base Construction	51,069,362.00	0.00	0.00
-WWTP	500,000.00	0.00	0.00
-Toilet Facility	150,000.00	0.00	0.00
PROJECT CONTINGENCY	2,553,468.60	0.00	0.00
A & E BASE CONTRACT	2,658,692.00	340,608.00	196,326.4
Feasibility/Schematic Design	340,608.00	340,608.00	196,326.4
Design Development	768,235.00	0.00	0.00
Construction Documents	797,100.00	0.00	0.00
Bidding	99,019.00	0.00	0.00
Construction Administration	586,282.00	0.00	0.00
Closeout	47,948.00	0.00	0.00
Other Basic Services	19,500.00	0.00	0.00
PROJECT MANAGEMENT	1,385,000.00	93,500.00	41,965.00
Feasibility/Schematic Design	93,500.00	93,500.00	41,965.00
Design Development/CD/Bid	319,500.00	0.00	0.00
Construction Administration/Closeout	962,000.00	0.00	0.00
Reimburseables	10,000.00	0.00	0.00
EXTRA/OTHER SERVICE	359,167.00	83,667.00	33,609.30
Study enviro, geotech,	83,667.00	83,667.00	33,609.36
Geotech & Structural peer review	15,000.00	0.00	0.00
Structural Inspections, Building tests	35,000.00	0.00	0.00
Green, Renewable, Sustainability Components	90,900.00	0.00	0.0
Geotech Site, Well Investigation	92,500.00	0.00	0.0
Geohydro, Wetland reflag	32,100.00	0.00	0.00
Other Extra Services	10,000.00	0.00	0.00
MISC. COSTS	295,000.00	0.00	0.0
Bid Printing/Advertising	75,000.00	0.00	0.00
Construction Testing	50,000.00	0.00	0.00
Haz-Mat Monitoring	95,000.00	0.00	0.00
Utility Company Fees	75,000.00	0.00	0.00
OWNER ADMIN	330,500.00	500.00	380.9
Study Notices	500.00	500.00	380.96
Owner Contingency	100,000.00	0.00	0.00
Legal	50,000.00	0.00	0.00
Bonding	180,000.00	0.00	0.0
FF&E	1,224,000.00	0,00	0.0
TECHNOLOGY	1,224,000.00	0,00	0.01
Project Budget Totals	61,749,189.60	518,275.00	272,281.7





OWNER'S PROJECT MANAGER MEMORANDUM

3

Schematic Design Estimate Reconciliation

Project Number

PROJECT:

Model Middle School

Hingham, MA

Date: 8/26/11

Attachments: A. M. Fogarty and Associates SD Estimate (for the designer)

Carmone Estimating Group, LLC SD Estimate (for the OPM)

To: Ray Estes - Chair of the Hingham School Building Committee, John Ferris, Director of

Business and Support Services, Hingham Public Schools

CC: Dorothy H. Galo. Ph. D., Hingham Public Schools, James Jordan, Ai3, Mary Mahoney,

KBA, Kristy Lyons, KBA

From: Dan Bradford, KBA

Ray,

Ai3's estimator (AM Fogarty) and KBA's estimator (Carmone Estimating Group) conferenced yesterday to review the Schematic Design estimates that are based on the schematic design documents generated by Ai3. Initial estimates from each firm were reviewed simultaneously. Both estimators provided their take off information for every item in the estimate to determine what quantities for product and what unit prices were carried by each estimator to ensure that both estimates were based on similar scope of work. Also, background knowledge about the level of finish work was discussed in order to provide accurate pricing level for some items where the detail information has not yet been provided in the documents. The current documents are at a schematic design level so the level of detail is not final and it was important for each estimator and the design team to discuss any areas where the assumptions need to be made about the intent of the design in order to price the project appropriately.

The attached estimates are the result of this conference held yesterday. Each estimator has incorporated the comments made in the conference into their initial estimates and modified their estimates accordingly. The reconciled estimates are attached and the revised amounts are:

PLANNING

DESIGN

EXTERIOR ENVELOPE CONSULTANTS

PROJECT MANAGERS



AM Fogarty -

\$53,253,514 (\$301.92/sf)

Alt #1, Field Storage/Toilet Bldg. - \$150,000

Alt #2, WWTP renovation - \$500,000

Carmone Estimating Group -

\$52,816,316 (\$299,44/sf)

Alt. #1, Field Storage/Toilet Bldg. - \$251,000

Alt. #2, WWTP renovation - \$500,000

These values reflect less than a 1% delta between each other which is well within the tolerance for a reconciled Schematic Design estimate to be presented to MSBA.

If you should have any questions, please contact me at your earliest convenience.

A.M. Fogarty & Assoc., Inc.

"Construction Cost Consultants"

Schematic Hingham Middle School Hingham, MA

26-Aug-11

GRAND SUMMARY

Building Cost				\$39,242,081
Site work				\$4,205,434
Remove Building	122,600	GSF	\$3.90	\$478,140
Hazardous Waste Removal				\$650,000
				4 40 M M M 45 44 45 45 45 45 45 46 46 47 47 47
	TOTAL DIRECT COST			44,575,655
GENERAL CONDITIONS FEE INSURANCE P&P BOND (all trades) DESIGN CONTINGENCY ESCALATION (June 2012)	24	MOS 3.0% 0.65% 1.0% 6% 4%	\$65,000	\$1,560,000 \$1,384,070 \$308,878 \$478,286 \$2,898,413 \$2,048,212
	TOTAL CONSTRUCTION CO	OST		\$53,253,514 \$301.92
ALTERNATE #1 ADD CONCES ALTERNATE #2 ADD UPGRA	SSION BUILDING DE EXISTING SEWAGE SYSTI	em equ	IPMENT	\$150,000 \$500,000
	CONSTRUCTION COST INC	LUDING	GALTERN	\$53,903,514

PROJECT:

LOCATION:

Hingham Middle School Hingham, MA Ai3 Architects

CLIENT: 26-Aug-11 DATE:

No.: 11094

SUMMARY

NO. OF SQ. FT.: COST PER SQ. FT.:

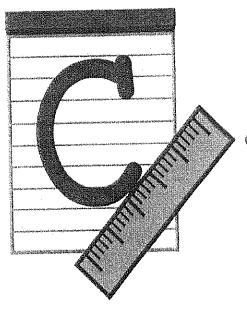
176,385

\$246.32

A. SUBSTRUCTURE A10 - FOUNDATIONS
A1010 STANDARD FOUNDATIONS A1020 SPECIAL FOUNDATIONS A1020 SPECIAL FOUNDATIONS A1030 SLAB ON GRADE A20- BASEMENT CONSTRUCTION A2010 BASEMENT EXCAVATION A2010 BASEMENT WALLS B10- SUPERSTRUCTURE B1010 FLOOR CONSTRUCTION B1020 ROOF CONSTRUCTION B2,334,702 B20- EXTERIOR WALLS B2010 EXTERIOR WALLS B2010 EXTERIOR WALLS B2010 EXTERIOR WINDOWS B2030 EXTERIOR DOORS B30- ROOFING B3010 ROOF COVERINGS B3020 ROOF OPENINGS C10- INTERIOR S C10- INTERIOR CONSTRUCTION C1010 PARTITIONS C1020 INTERIOR DOORS S10,4644,088 C1030 FITTINGS C1020 INTERIOR DOORS S10,4644,088 S1782,476 S20,330 C1030 FITTINGS S182,476 S182,47
A1010 STANDARD FOUNDATIONS A1020 SPECIAL FOUNDATIONS A1030 SLAB ON GRADE A20- BASEMENT CONSTRUCTION A2010 BASEMENT EXCAVATION A2010 BASEMENT WALLS B10- SUPERSTRUCTURE B1010 FLOOR CONSTRUCTION B1020 ROOF CONSTRUCTION B20- EXTERIOR ENCLOSURE B2010 EXTERIOR WALLS B2020 EXTERIOR WINDOWS B2030 EXTERIOR WINDOWS B2030 EXTERIOR DOORS B3010 ROOF COVERINGS B3010 ROOF OPENINGS C10- INTERIOR CONSTRUCTION C1010 PARTITIONS C1020 INTERIOR DOORS B1030 FITTINGS C1020 STAIRS C1020 STAIRS C105 STAIRS C106 STAIR CONSTRUCTION C1010 STAIR C1010 STAIR CONSTRUCTION C1010 STAIR CO
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B. SHELL B10 - SUPERSTRUCTURE B1010 FLOOR CONSTRUCTION B1020 ROOF CONSTRUCTION B1020 ROOF CONSTRUCTION B2,334,702 B20 - EXTERIOR ENCLOSURE B2010 EXTERIOR WALLS B2020 EXTERIOR WINDOWS B2030 EXTERIOR DOORS B30 - ROOFING B3010 ROOF COVERINGS B3010 ROOF COVERINGS B3020 ROOF OPENINGS C1010 PARTITIONS C1010 PARTITIONS C1020 INTERIOR DOORS C1030 FITTINGS C20 - STAIRS C2010 STAIR CONSTRUCTION B1010 FLOORS C1010 STAIR CONSTRUCTION C1010 STAIR
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BI010 FLOOR CONSTRUCTION 2,135,368 5% 12.11 B1020 ROOF CONSTRUCTION 2,334,702 5% 13.24 B20 - EXTERIOR ENCLOSURE B2010 EXTERIOR WALLS 4,362,983 10% 24.74 B2020 EXTERIOR WINDOWS 1,862,192 4% 10.56 B2030 EXTERIOR DOORS 104,650 0% 0.59 B30 - ROOFING B3010 ROOF COVERINGS 1,623,595 4% 9.20 B3020 ROOF OPENINGS 92,200 0% 0.52 C. INTERIORS C10 - INTERIOR CONSTRUCTION C1010 PARTITIONS 4,644,088 11% 26,33 C1020 INTERIOR DOORS 582,918 1% 3.30 C1030 FITTINGS 1,782,476 4% 10.11 C20 - STAIRS C2010 STAIR CONSTRUCTION 187,310 0% 1.06 C1010 PARTICONSTRUCTION 187,310 0% 1.06 C1010 STAIR CONSTRUCTION 187,310 0% 1.06 C1010 STAIR CONSTRUCTION 1.06 1.06 C1010 ST
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B2010 EXTERIOR WALLS
B2010 EXTERIOR WALLS ## B2020 EXTERIOR WINDOWS ## B2030 EXTERIOR DOORS ## B2030 EXTERIOR DOORS ## B3010 ROOF COVERINGS ## B3010 ROOF COVERINGS ## B3020 ROOF OPENINGS ## B3020 ROOF OPENINGS ## B3020 ROOF OPENINGS ## C10 - INTERIOR CONSTRUCTION ## C1010 PARTITIONS ## C1020 INTERIOR DOORS ## C1020 INTERIOR DOORS ## C1030 FITTINGS ## C2010 STAIRS ## C2010 STAIR CONSTRUCTION ## C2010 STAIR CONSTRUCTION ## B2030 STAIR CON
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C10 - INTERIOR CONSTRUCTION
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C1020 INTERIOR DOORS 582,918 1% 3.30 C1030 FITTINGS 1,782,476 4% 10.11 C20 - STAIRS C2010 STAIR CONSTRUCTION 187,310 0% 1.06
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C20 - STAIRS C2010 STAIR CONSTRUCTION 187,310 0% 1.06
C2010 STAIR CONSTRUCTION 187,310 0% 1.06
CZUIO BIAIN CONGINES CITO.
C30 - INTERIOR FINISHES
C3010 WALL FINISHES 359,495 1% 2.04
C3020 FLOOR FINISHES 1,022,204 2% 5.80
C3030 CEILING FINISHES 1,078,247 2% 6.11
D. SERVICES
DIA. CONVEYING
D1010 FLEVATORS & LIFTS 106,460 0% 0.60
DI010 ESCALATORS & MOVING WALKS 0 0% 0.00
D1090 OTHER CONVEYING SYSTEMS 0 0% 0.00
D20 - PLUMBING
D2010 PLUMBING 1,778,343 4% 10.08

Hingham Middle School - Schematic	TOTAL	PERCENT OF PROJECT	COST PER SF
D30 - HVAC			~
D3010 HVAC	4,586,010	11%	26.00
D40 - FIRE PROTECTION		20/	4 37
D4010 FIRE PROTECTION	752,902	2%	4.27
D50 - ELECTRICAL		140/	26.60
D5010 ELECTRICAL	4,674,203	11%	26,50
E. EQUIPMENT & FURNISHINGS			
E10 - EQUIPMENT	1 000 400	3%	6.23
E1010 COMMERCIAL EQUIPMENT	1,098,499	0%	0.00
E1020 INSTITUTIONAL EQUIPMENT	0 0	0%	0.00
E1030 VEHICULAR EQUIPMENT	0	0%	0.00
E1090 OTHER EQUIPMENT	U	070	0.00
E20 - FURNISHINGS	1,086,846	3%	6,16
E 2010 FIXED FURNISHINGS	1,000,040	0%	0.00
E2020 MOVABLE FURNISHINGS F. SPECIAL CONSTRUCTION & DEMOLITION	Ū	V.*	
F10 - SPECIAL CONSTRUCTION F1010 SPECIAL STRUCTURES	0	0%	0.00
F1010 SPECIAL STRUCTURES F1020 INTEGRATED CONSTRUCTION	0	0%	0.00
F1030 SPECIAL CONSTRUCTION SYSTEMS	0	0%	0.00
F1030 SPECIAL CONSTRUCTION STOTEMON	0	0%	0.00
F1040 SI ECIAL PACIENTES F1050 SPECIAL CONTROLS & INSTRUMENTATION	0	0%	0.00
F20 - SELECTIVE BUILDING DEMOLITION			
F2010 BUILDING ELEMENTS DEMOLITION	0	0%	0.00
F2020 HAZARDOUS COMPONENTS ABATEMENT	0	0%	0.00
G. BUILDING SITEWORK			
G10 - SITE PREPARATION			
G1010 SITE CLEARING	177,309	0%	1.01
G1020 SITE DEMOLITION & RELOCATIONS	160,506	0%	0.91
G1030 SITE EARTHWORK	756,748	2%	4.29
G1040 HAZARDOUS WASTE REMEDIATION	0	0%	0.00
G20 - SITE IMPROVEMENTS			
G2010 ROADWAYS	655,272	2%	3.72
G2020 PARKING LOTS	0	0%	0.00
G2030 PEDESTRIAN PAVING	240,886	1%	1.37
G2040 SITE DEVELOPMENT	664,544	2%	3.77
G2050 LANDSCAPING	331,509	1%	1.88
G30 - SITE MECHANICAL UTILITIES		10/	1.774
G3010 WATER SUPPLY	307,038	1%	1.74
G3020 SANITARY SEWER	126,254	0%	0.72 2.75
G3030 STORM SEWER	485,819	1%	0.00
G3040 HEATING DISTRIBUTION	. 0	0%	0.00
G3050 COOLING DISTRIBUTION	0	0%	0.10
G3060 FUEL DISTRIBUTION	18,450	0% 0%	0.00
G3090 OTHER SITE MECHANICAL UTILITIES	0	U%	0.00
G40 - SITE ELECTRICAL UTILITIES	122 (00	0%	0.76
G4010 ELECTRICAL DISTRIBUTION	133,600 147,500	0% 0%	0.84
G4020 SITE LIGHTING	147,300	076	V.04

Hingham Middle School - Schematic	TOTAL	PERCENT OF PROJECT	COST PER SF
G4030 SITE COMMUNICATIONS & SECURITY G4090 OTHER SITE ELECTRICAL UTILITIES G90 - OTHER SITE CONSTRUCTION	0 0	0% 0%	00.0 00.0
G9010 SERVICE AND PEDESTRIAN TUNNELS G9090 OTHER SITE SYSTEMS	0	0% 0%	0.00 0.00
TOTAL	43,447,515	100%	246.32



CARMONE ESTIMATING GROUP, LLC

Budget Estimate

Plans dated: 8/01/2011

HINGHAM MIDDLE SCHOOL

Owner: Town of Hingham, MA Architect: Ai3 Architects

631 East Street . C201 . Mansfield, MA . 617.777.6319 . tacarmone@comcast.net

UNIFORMAT II LEVEL 3 SCHEMATIC BUDGET ESTIMATE

CLIENT: KBA

PROJECT: Hingham Middle School

SIZE (gsf): 176,385

LOCATION: Hingham , Massachusetts

ESTIMATOR: TAC

PLAN DATE: August 1,2011

TODAY'S DATE: 08/26/11

TODAY'S DATE:	08/29/11			
			DIVISION	COST
			SUMMARY	PER SF
		oggaffetigestegetetet etterfetetet No		entransacione en en en en
	DIVISIO	14	3,087,935	17.51
	A. SUBSTRUCTURE		11,863,808	
	B. SHELL		9,223,291	
	C. INTERIORS		11,892,481	67.42
	D. SERVICES E. EQUIPMENT & FURNISHINGS	s	2,174,582	
	F. SPECIAL CONSTRUCTION &	DEMOLITION	1,066,120	
	G. BUILDING SITEWORK		4,765,170	
	G. BUILDING OITEN ON		\$44,073,38	%
			881,46	s 5,00
	GENERAL CONTRACTORS/SU	B BOND COST	1,560,00	
	GENERAL CONDITIONS		BY OWNER	~
	BUILDING PERMIT	3%	1,395,44	6 7.91
	FEE	6%	2,874,61	
	DESIGN CONTINGENCY ESCALATION	4 %	2,031,39	
		SUB-TO	TAL: \$52,816,31	6
		TOTAL PROJECT C	OST \$52,016,3	(
		COST PER	GSF \$299.	4
	ADD Sewage System Upgrad	e	\$ 500,00	īU
	ADD CONCESSION BUILDING	ì	\$ 251,45	60
	URM AALLAMAGIA.			

UNIFORMAT II LEVEL 3 SCHEMATIC BUDGET ESTIMATE

CLIENT: KBA

PROJECT: Hingham Middle School

SIZE (gsf): 176,385

LOCATION: Hingham , Massachusetts

ESTIMATOR: TAC

PLAN DATE: August 1,2011

DDAY'S DATE: 08/26/11

SDAY'S DATE: U0120111			
		DIVISION	COST
		SUMMARY	PER SF
Division	efelistetatetatetat ezesutua, susueus ueus ueus uu eus		
FOUNDATIONS		3,087,935	17.51
BASEMENT CONSTRUCTION		0	0,00
SUPER STRUCTURE		4,482,282	25.41
EXTERIOR ENCLOSURE		5,660,970	32.09
ROOFING		1,720,555	9.75
INTERIOR CONSTRUCTION		6,109,267	34.64
STAIRS		210,796	1.20
INTERIOR FINISHES		2,903,229	
CONVEYING		106,495	0.60
PLUMBING		1,816,057	10.30
		4,586,536	26.00
HVAC		756,071	4.29
FIRE PROTECTION		4,627,322	26.23
ELECTRICAL		751,074	
EQUIPMENT		1,423,508	8.07
FURNISHINGS		Q	
SPECIAL CONSTRUCTION BUILDING DEMOLITION AND HA	ZARDOLIS ARATEMEN	1,066,120	6.04
	ZANDOGO ADATEMEN	1,496,096	
SITE PREPARATION		1,846,483	
SITE IMPROVEMENTS		1,396,342	
SITE MECHANICAL UTILITIES		26,250	
SITE ELECTRICAL UTILITIES			0.00
OTHER SITE CONSTRUCTION		\$44,073,38	
		004 46	s 5.00
GENERAL CONTRACTORS/SUB	BOND COST	881,46	
GENERAL CONDITIONS		1,560,000	y 0,04
BUILDING PERMIT		BY OWNER	6 7.91
FEE	3%	1,395,44	
DESIGN CONTINGENCY	6 %	2,874,61	
ESCALATION	4%	2,031,39	11.04
	SUB-TOTAL:	\$52,816,31	6
7	TOTAL PROJECT COST	352,816.31	
	COST PER GSF	- (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	*
ADD UPGRADE SEWAGE SYST	EM	\$ 500,00	0
		\$ 251,45	0
ADD CONCESSION BUILDING		+	

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NEW HINGHAM MIDDLE SCHOOL Ai3 Project #1101.00 August 29, 2011

AM Fogarty Estimate 8/26/2011 Building Cost	\$39,242,081
Site Work	\$4,205,434 \$478,140
Remove Building HAZ MAT Removal	\$650,000
TOTAL DIRECT COST	\$44,575,655
*This estimate is a determination of fair market value of the construction of this project.	
It is not a prediction of low bid.	
Proposed VE Cost Reduction Items:	
Site:	(\$143,100)
Reduce disposal of surplus fill(raise Building 1' and raise fields 2' 15,900 x \$9.0CY) Reduce Planting allowance by 25K	(\$25,000)
Eliminate Traffice Signage- (Included in exterior signage architectural)	(\$5,000)
Eliminate Basketball courts, fencing and gravel base (replace with loam and seed)	(\$116,374)
Eliminate Wood School Sign	(\$4,000)
Exterior	
Reduce Signage- exterior by 10K	(\$10,000)
Reduce Gym Signage by 8K	(\$8,000) (\$20,000)
Provide 1 exterior lawn sign	(\$20,000)
Finishes:	
Reducefinish carpentry by 15% (450,000)	(\$67,500)
Remove decorative logo from Lobby floor	(\$5,000)
Plumbing	.0.00 4.00
Reduce plumbing to \$9.35/sf	(\$129,143)
HVAC:	
Reduce HVAC system to \$25,00/SF	(\$176,385)
Fire Protection	
Reduce Fire Protection System to \$4.05/SF	(\$38,542)
Electrical	
Eliminate pedestrian lighting from 20 to 10 fixtures	(\$22,000)
Equipment	
Reduce seats from 700 to 680 in auditorium (estimate carried 700)	(\$14,000
*Eliminate dishwashing component from Kitchen Equipment allowance	(\$35,000
Eliminate kiln and provide in FFE	(\$3,800
Eliminate Bleacher Paint and Garphics Recude Wood Shop and Tech Design Lab Equipment by \$16,000	\$5,000) (\$16,000)
Eliminate electrical mat hoist-wrestling - from gym equipment	(\$7,500
Provide 3 furne hoods for science- reduce from 9 to 3	(\$46,500
Eliminate Water Distillers	(\$10,800
Eliminate Autoclave sterilizers	(\$40,500
Elimintae Steam Tables	(\$13,500
Reduce theater equipment Total VE Savings:	(\$50.000 -\$1,012,64
Total V.S. Savings.	\$2,52, 2 10.
ESTIMATE ADJUSTMENTS	
Building & Site Cost	\$42,434,871
Remove Building	\$478,140
HAZ MAT Removal TOTAL DIRECT COST	\$650,000 \$43,563,011
General Conditions (24 Months @ 65K)	\$1,560,000
FEE (3%)	\$1,306,890 \$283,160
Insurance (0.65%) DSD Pand (1.0%)	\$283,100 \$435,630
P&P Bond (1.0%)	\$2,178,150.55
Denian Continuency (Padvee to 5% to 1.360 of 6%)	
Design Contingency (Reduce to 5% in Lieu of 6%) Escalation (4%)	\$1,742,320
	\$1,742,520 \$51,069,362



OWNER'S PROJECT MANAGER MEMORANDUM

4

Project Scope & Budget -Schematic Estimate Value Engineering Considerations

Project Number

PROJECT:

Model Middle School Hingham, MA

Date: 8/26/11

Attachments: Ai3 Proposed VE Cost Reduction Items

To: Carolyn Walsh, Project Coordinator, MSBA

CC: Raymond Estes, Hingham Building Committee, Dorothy H. Galo. Ph. D., Hingham Public

Schools, John Ferris, Hingham Public Schools, James Jordan, Ai3, Dan Bradford, KBA,

Kristy Lyons, KBA

From: Mary Mahoney, KBA

Ms. Walsh.

Following Project Scope and Budget cost estimate reconciliation, Ai3 and KBA conducted a value engineering exercise for the project to review the cost and functional value of various design components, features and systems. Based on the exercise, the attached list of scope reductions and adjustments were offered to Hingham's Building Committee to maximize cost efficiency for the project without impact to the overall scope, function and performance of the proposed building and site improvements.

As indicated in the attached document the proposed total scope reduction includes twenty five (25) items with a value of \$1,012,644 which will result in an amended construction cost total of \$51,069,362.

The attached value engineering list was reviewed with the Hingham Building Committee during their August 29, 2011 meeting and following extensive consideration and discussion the list of value engineering items was accepted without exception.

The total project budget report and MSBA Form 3011 Total Project Budget Template – PS&B have been drafted to include the revised total construction costs of \$51,069,362 for the base project. Construction cost estimates for Alternate Nos. 1 and 2, Field Storage/Toilet Bldg and Wastewater Treatment System Upgrades, shall remain at the value reported in the original cost estimate document.

If you should have any questions, please contact me at your earliest convenience. Regards.

PLANNING

DESIGN

EXTERIOR ENVELOPE CONSULTANTS

PROJECT MANAGERS